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31 AUG 1965

## MEMORANDUM FOR THE RECORD

SUBJECT: U-2 Fleet Modification

1. On 27 August the meeting was convened at AFIGO-S to consider schedule and cost of modifying the SAC U-2 fleet. The following people were present: [redacted]; Colonel Ellsworth Powell, SAC; Colonel Hagreen, AFIGO-S; [redacted] OSA; Mr. [redacted] Lt. Colonel [redacted] OSA; [redacted] OSA; Mr. William Denard, Depot; Lt. Colonel Robert Honeywell, AFIGO-S; Lt. Colonel Wayne Freas, Wright/Patterson; [redacted] OSA.

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2. The first subject discussed was the modification schedule and its attendant problems. The limiting factor in production timing is the conversion and/or new production of J-75 P-13B engines. It was generally agreed that, although we can put three U-2A's into modification and supply engines for them without delay, the modification line would have to be interrupted for approximately five months before any more engines would become available. Alternatively, the initial modifications could use presently available P-13 engines until the 13B becomes available in late 1965 or early 1966. This means that several SAC aircraft as well as ours would be returned for installation of 13B engines.

3. If we start modification in September 1965, we reach a critical point in December 1966 when we would have three spare engines for sixteen aircraft. This assumes that the P-13B conversions would continue apace. Another option is to delay the entire modification line to meet the new production of engines. This, however, will not meet the 1967 completion date specified by D/NRO. AFIGO-S agreed to look for four more J-75 engines so that the P-13B conversion program and the aircraft modifications can be started right away. It was made clear to all that the J-75 P-13 engine will fit and work in either the present aircraft and inlet duct system or the one modified for the P-13B engine. The P-13B engine requires the modified ducts.

4. SAC advised that no more than two J-57 U-2's could be in plant modification at one time. Sixteen weeks are required to convert a U-2A to a J-75 standard configuration,

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presumably a U-2C. SAC evinced no interest in a carrier version, and the two refueling versions they now possess will remain so equipped after modification.

5. LAC has developed a modification schedule calling for the first aircraft in the factory 25 October 1965, to be completed 21 February 1966. Subsequently, a U-2 will enter every eight weeks with the last one in 22 May 1966 and ready for service 11 September 1966.

6. J-75 engines will be required four weeks prior to completion of modifications. The first J-75 P-13 engine will be delivered to LAC to meet the conversion schedule the week of 24 January 1966. An additional J-75 will be scheduled into LAC every eight weeks thereafter until all J-57 aircraft are configured to the J-75 engine.

7. It was agreed that the current J-75 P-13 inventory cannot be modified to the P-13B version at this time. Twenty new J-75 P-13B engines have been ordered by USAF with the first delivery scheduled December 1966. Delivery after that will be at two per month.

8. Although the question was never completely discussed or settled, it was suggested that OSA manage the total J-75 engine inventory for both users. This is a must for effective control of limited engine assets.

25X1A 9. [ ] sought clarification for provision purposes  
25X1A of how many separate locations he should plan on for both  
projects. [ ] stated that he was obliged to maintain  
three operating locations, and I stated that OSA also  
was required to maintain the capability to operate from three  
25X1A locations simultaneously. This establishes a total of six  
operating locations for which [ ] will provision spares  
and FAK. An interesting sidelight to this discussion was  
25X1A [ ] remark that either SAC or the Agency might  
operate from the same location.

10. AFSC aircraft, although assumed to be included in the modification program at a later date, will be specifically excepted from consideration in the answer to D/NRO.

11. We then turn to consideration of the basic configuration for modified aircraft. As agreed at this meeting, a J-75C model will incorporate the following features:

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- A. J-75 engine with continuous ignition and oil temp indicator. The continuous ignition features will be included until 13B engines and oxygen augmentation is available.
- B. Enlarged engine intake scoops.
- C. Horizontal stabilizer leading edge camberchange.
- D. Elevator trim position indicator.
- E. Extendable stall strips.
- F. Fuel dump system.
- G. 150 degree sugar scoop for reduction of I.R. detection.
- H. Improved EPR system.
- I. Additional 750 VA inverter acting as backup for the No. 1 inverter for inverter bus loads, or as backup for the AC generator for system 13A.
- J. Larger Bendix AC generator with improved fault protection.
- K. 618T-3 transceiver relocated to nose for the following reasons:
  - 1. Present pressure box too tall to fit beneath larger tailpipe.
  - 2. Present cooling system is operating at maximum capability. Environment adjacent to J-75 tailpipe is considerably higher temperature.
- L. Windshield defroster.
- M. Time code generator.
- N.

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- b. Cockpit space savings through elimination of pod pressurization control panel.
- c. Elimination of engine bleed air drain required for pods.
- d. Improved flight characteristics and performance without pods.

5.



6. Delta 3 - stereo camera. Hatches and hand controls will have to be procured. Delta 3 systems will be allocated to the user complete with all necessary accessories including hatches and hand controls.

7.



- Q. Extended elevator and elevator tab.
- R. Drop tank provision.
- S. Fuel re-tank will wait for flight test results before acceptance.
- T. Doppler system - Decision will await flight test.
- U. The 914 ATC transponder installation depends upon the Doppler flight test. (Space problem if a Doppler unit is located in the canoe.)
- V. QRC 445 hard seat packs and oxygen system configuration. This option will wait for a SAC evaluation to determine whether or not to change from the soft pack to the hard pack.

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W. QRC 192 decision will wait for a SAC evaluation, but, as of this writing, will be for SAC aircraft only. This will make some SAC aircraft exceptions to the standard configuration.

X. Extended fairing atop fuselage for installation of electronic components.

12. The standard configuration will be policy in conversions, but we recognize some inevitable differences. There was considerable discussion about the "H" camera and the QRC 192

25X1A [redacted] According to [redacted] the "H" camera and  
25X1D hand control have to be precisely mated to the aircraft because  
25X1A of peculiar vibration and roll characteristics and limitations. [redacted] had great praise for the QRC 192 which we find not responsive to our mission. It is my impression that the "H" camera and the QRC 192 will be used on SAC aircraft without further reference. We then arrive at several probable non-standard configurations: "H" camera, QRC 192, [redacted] Delta 3. 25X1

13. A provisioning meeting will be held at AFIGO-S on 9 September to determine the inventory and cost of spares, AGE, and test equipment for the additional eleven aircraft.

25X1A 14. [redacted] mentioned a trade or a loan of  
25X1A Agency aircraft to SAC; but, according to my guidance, I offered  
25X1A no reply or opinion. Colonel Geary has told him [redacted] to contact [redacted] on this subject. Colonel Saunders also mentioned the proposal that D/OSA has seen on this same subject, but indicated that he had never read the paper. This indicates to me that the request for a loan of at least two J-75 U-2's to SAC is in the immediate offing.

25X1A [redacted]

Lt. Colonel USAF  
Chief, Plans for Field Activities, OSA

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Plans/FA/OSA/[redacted]lem (30 Aug 65)

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- #1 - D/OSA
  - #2 - D/FA/OSA
  - #3 - IDEA/OSA
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